ABSTRACT

The optical fiber coupling apparatus (1) for coupling light from a light-emitting device (3) into an optical fiber (4) in an optoelectronic package comprises a microactuator (8) for positioning the end of the fiber (4) with respect to the light-emitting device (3), and a control circuit (9) in which the manipulated variable is a position of the fiber end. The control circuit (9) comprises outcoupling means (41) for coupling out of the fiber (4) a well-defined portion of the light propagating through the core of the fiber (4) and a photodetector (5) for detecting the intensity of the outcoupled light portion. The controlled variable in the control circuit (9) is the light intensity detected by the photodetector (5), from which a microprocessor (6) calculates command signals for the microactuator (8). Thus, a remote control of the optical coupling without any external intervention is achieved.